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FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Joseph M. Cannon	CANNON 115-104	5953
003	EXAMI	INER
	TRAN, TUAN A	
	ART UNIT	PAPER NUMBER
	2682 DATE MAILED: 12/31/2003	, 4
_		Joseph M. Cannon CANNON 115-104 EXAMI TRAN, T ART UNIT 2682

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/761,774	CANNON ET AL.
Office Action Summary	Examiner	Art Unit
	Tuan A Tran	2682
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply find period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). - Status	.136(a). In no event, however, may a reply ply within the statutory minimum of thirty (3 I will apply and will expire SIX (6) MONTH: te, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 18.	January 2001.	
2a) ☐ This action is FINAL . 2b) ☑ This	is action is non-final.	
3) Since this application is in condition for allows closed in accordance with the practice under		
Disposition of Claims		
 4) Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ 	awn from consideration.	
Application Papers	or clockon requirement.	
9)☐ The specification is objected to by the Examin	nor	
10) The drawing(s) filed on is/are: a) ac		the Examiner.
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct		-
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached C	Office Action or form PTO-152.
Priority under 35 U.S.C. §§ 119 and 120		
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first sentence of the priority application from the foreign language priority. 14) Acknowledgment is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for document is made of a clai	nts have been received. Ints have been received in Apports have been received in Apports documents have been reau (PCT Rule 17.2(a)). Into of the certified copies not receive priority under 35 U.S.C. § irst sentence of the specification rovisional application has been stic priority under 35 U.S.C. §§	ceived in this National Stage ceived. 119(e) (to a provisional application) on or in an Application Data Sheet. In received. 120 and/or 121 since a specific
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-2, 4-5, 7-12, 14-21 and 23-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Croft et al. (6,490,439).

Regarding claims 16 and 23-24, Croft discloses an apparatus for optimizing link quality of a wireless piconet device to a user comprising: means for firstly determining at least one aspect of a link quality of a wireless connection to a short range network; and means for providing first indication, wherein the indication is visible, of compliance of at least one aspect of the link quality to the user, wherein the compliance is determined by means for comparing the determined at least one aspect to a pre-configured threshold value optimal communication quality (See figs. 8-9, 11 and col. 8 line 57 to col. 9 line 2, col. 9 line 61 to col. 10 line 3).

Claims 7 and 14-15 are rejected for the same reasons as set forth in claims 16 and 23-24, as method.

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Claims 1 and 4 are rejected for the same reasons as set forth in claims 16 and 23-24.

Regarding claim 17, Croft discloses as cited in claim 16. Croft further discloses the apparatus varies visual indication according to the received signal strength (See fig. 11 and col. 9 line 61 to col. 10 line 3), and the received signal strength varies dependent upon locations of the receiving wireless piconet device; therefore the apparatus inherently comprises means for allowing the user to physically move the wireless piconet device; means for secondly determining at least one aspect of the link quality; and means for providing a second indication of compliance of at least one aspect of the link quality to the user.

Claim 8 is rejected for the same reasons as set forth in claim 17, as method.

Regarding claims 18-19, Croft discloses as cited in claim 16. Croft further discloses the apparatus comprises: a processor coupled to the transceiver, the processor adapted to vary the visual indication; and a memory unit coupled to the processor, the memory unit for storing instructions executed by the processor for varying the visual indication (See fig. 9 and col. 12 lines 28-35). Therefore the apparatus inherently comprises means for generating a Read_RSSI command or a Get_Link_Quality command (command for measuring the signal strength) and means for retrieving a link quality value returned in response to the command.

Claims 9-10 are rejected for the same reasons as set forth in claims 18-19, as method.

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Regarding claim 20-21, Croft further discloses the wireless connection is a piconet connection or a scatternet connection (See fig. 8).

Claims 11-12 are rejected for the same reasons as set forth in claims 20-21, as method.

Regarding claim 2, Croft discloses as cited in claim 1. Croft further discloses the piconet front end conforms to Bluetooth standards. (See figs. 8-9 and col. 8 line 5 to col. 9 line 2).

Regarding claim 5, Croft further discloses the visible user link quality indicator comprises an LED (See col. 10 lines 4-12).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 3, 6, 13 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Croft et al. (6,490,439).

Regarding claim 22, Croft discloses as cited in claim 16. However, Croft does not mention that the indication is audible. Audible indication is well known in the art, therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to use audible indication alone or in combination with visual indication for the advantage of expanding the capability of the system to various types

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of alert modes as well as for allowing the users to set the alert mode in accordance to their intentions.

Claims 13 is rejected for the same reasons as set forth in claim 22, as method.

Claim 3 is rejected for the same reasons as set forth in claim 22.

Regarding claim 6, Croft discloses as cited in claim 4. However, Croft does not mention that the visible user link quality indicator comprises a graphical display.

Graphical display is common in the art, therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to use graphical display for the advantage of expanding the capability of the system to various types of display.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Bork et al. (US 2002/0010008) discloses wireless communication device having intelligent alerting system.
- Kannis (WO 01/48612) discloses data transmission apparatus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan Tran** whose telephone number is **(703) 605-4255**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Vivian Chin**, can be reached at **(703) 308-6739**.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Tuan Tran

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PRIMARY EXAMINER